



Mahatma Phule Krishi Vidyapeeth, Rahuri

Information about Crop wise Improved / Hybrid Varieties Developed by University

Improved / Hybrid Varieties of Sorghum

M-35-1



| | | |
|------------------------------|--|--|
| | Release year | 1937-38 |
| | Name of Institute / University | Department of Agril., Bombay State |
| | Soil type | Medium deep |
| | Climate | Dry Rainfed |
| | Sowing Time / Planting period | 2 nd fortnight of September to 2 nd fortnight of October |
| Seed Rate (Per acre) | 4 kg | |
| Crop duration | 120-125 Days | |
| Productivity | 15-18 q/ha. | |
| Characters / features | Semi- compact, Oval panicle, Pearly white bold and round grains, Drought tolerant, Tolerant to major pest and diseases | |
| Remark | Superior grain and fodder quality | |

Swati (RSV 9R/SPV 504)



| | | |
|------------------------------|---|--|
| | Release year | 1984 |
| | Name of Institute / University | Sorghum Improvement Project, MPKV, Rahuri |
| | Soil type | Deep Soil |
| | Climate | Rabi Season |
| | Sowing Time / Planting period | 15 th September to 15 th October |
| Seed Rate (Per acre) | 4 kg/ Acre | |
| Crop duration | 120-125 days | |
| Productivity | Grain Yield: 24-28 q/ha. Fodder Yield: 50-60 q/ha. | |
| Characters / features | Round bold grain, Tolerant to shoot fly, Tolerant to Charcoal rot, Tolerant to high temperature | |



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SSV-84 - Ethanol Purpose



| | |
|---------------------------------------|--|
| Release year | 1990 |
| Name of Institute / University | Sorghum Improvement Project, MPKV, Rahuri |
| Soil type | Medium –deep soil |
| Climate | Kharif Season |
| Sowing Time / Planting period | 15 th June to 7 th July |
| Seed Rate (Per acre) | 4 kg/ Acre |
| Crop duration | 120-125 days |
| Productivity | Green cane Yield : 30-35 t/ha. Grain Yield : 1.0-1.2 t/ha. Ethanol Yield : 800-1000 Liter/ha |
| Characters / features | Non tan pigment, Turtle white grain, Moderately tolerant to shoot fly, Brix at maturity : 18-20 % |

Selection-3



| | |
|---------------------------------------|---|
| Release year | 1994 |
| Name of Institute / University | MPKV, Rahuri |
| Soil type | Shallow Soil |
| Climate | Rabi Season |
| Sowing Time / Planting period | 15 th September to 15 th October |
| Seed Rate (Per acre) | 4 kg/ acre |
| Crop duration | 110-115 days |
| Productivity | Grain Yield : 5-6 Fodder Yield: 15-18 |
| Characters / features | Early, Tolerant to shoot fly, Tolerant to Charcoal rot, Tolerant to drought |
| Remark | Suitable for shallow soil under rainfed condition |



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Phule Yashoda (RSV 56/SPV 1359/ CSV 216)



| | | |
|------------------------------|---|--|
| | Release year | 1998 (State level & 2000 at National level) |
| | Name of Institute / University | Sorghum Improvement Project, MPKV, Rahuri |
| | Soil type | Deep Soil |
| | Climate | Rabi Season |
| | Sowing Time / Planting period | 15 th September to 15 th October |
| Seed Rate (Per acre) | 4 kg/ Acre | |
| Crop duration | 120-125 days | |
| Productivity | Grain Yield : 25-30 q/ha. Fodder Yield: 70-78 q/ha. | |
| Characters / features | Medium bold and pearly white grain, Tolerant to shoot fly, Tolerant to Charcoal rot, Tolerant to Stem borer | |

Phule Mauli (RSLG 262)



| | | |
|------------------------------|---|--|
| | Release year | 1999 |
| | Name of Institute / University | Sorghum Improvement Project, MPKV, Rahuri |
| | Soil type | Medium Soil |
| | Climate | Rabi Season |
| | Sowing Time / Planting period | 15 th September to 15 th October |
| Seed Rate (Per acre) | 4 kg/ Acre | |
| Crop duration | 110-112 days | |
| Productivity | Grain Yield : 15-18 q/ha. Fodder Yield: 45-50 q/ha. | |
| Characters / features | Early, Tolerant to shoot fly, Tolerant to Charcoal rot, Tolerant to drought | |



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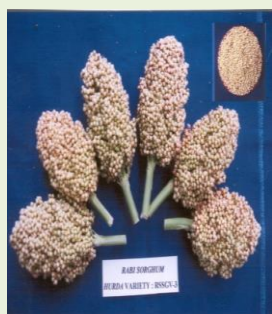
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CSV 19 SS (RSSV 9) - Ethanol Purpose



| | | |
|------------------------------|--|---|
| | Release year | 2004 |
| | Name of Institute / University | Sorghum Improvement Project, MPKV, Rahuri |
| | Soil type | Medium-Deep Soil |
| | Climate | Kharif Season |
| | Sowing Time / Planting period | 15 th June to 7 th July |
| Seed Rate (Per acre) | 4 kg/ Acre | |
| Crop duration | 115-120 days | |
| Productivity | Green cane Yield : 35-40 t/ha. Grain Yield: .0.8-1.0 t/ha. Ethanol Yield : 1000 to 1200 Liter/ha | |
| Characters / features | Non tan pigment, Tolerant to shoot fly, Tolerant to foliar diseases, Brix at maturity : 18-20% | |

Phule Uttara (RSSGV 3) – Hurda Purpose



| | | |
|------------------------------|--|--|
| | Release year | 2005 |
| | Name of Institute / University | Sorghum Improvement Project, MPKV, Rahuri |
| | Soil type | Medium/Deep Soil |
| | Climate | Rabi Season |
| | Sowing Time / Planting period | 15 th September to 15 th October |
| Seed Rate (Per acre) | 4 kg/ Acre | |
| Crop duration | 95-100 days for hurda 110-114 days for grain purpose. | |
| Productivity | Hurda Yield : 20-25 q/ha. Fodder Yield: 50-55 q/ha. | |
| Characters / features | Sweet grain at dough stage, Tolerant to shoot fly, Tolerant to Charcoal rot, Tolerant to drought | |



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Phule Chitra (RSV 237/SPV 1546)



| | | |
|------------------------------|---|--|
| | Release year | 2006 |
| | Name of Institute / University | Sorghum Improvement Project, MPKV, Rahuri |
| | Soil type | Medium Soil |
| | Climate | Rabi Season |
| | Sowing Time / Planting period | 15 th September to 15 th October |
| Seed Rate (Per acre) | 4 kg/ Acre | |
| Crop duration | 118-120 days | |
| Productivity | Grain Yield : 20-25 q/ha. Fodder Yield: 55-60 q/ha. | |
| Characters / features | Medium bold grain, Tolerant to shoot fly, Tolerant to Charcoal rot, Tolerant to drought | |

Phule Vasudha (RSV 423/SPV1704)



| | | |
|------------------------------|---|--|
| | Release year | 2007 |
| | Name of Institute / University | Sorghum Improvement Project, MPKV, Rahuri |
| | Soil type | Deep Soil |
| | Climate | Rabi Season |
| | Sowing Time / Planting period | 15 th September to 15 th October |
| Seed Rate (Per acre) | 4 kg/ Acre | |
| Crop duration | 116-120 days | |
| Productivity | Grain Yield : 25-28 q/ha. Fodder Yield: 55-60 q/ha. | |
| Characters / features | Round and pearly white bold grain, Tolerant to shoot fly, Tolerant to Charcoal rot, Tolerant to drought | |



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CSV-22 (RSV 491/SPV 1626)



| | |
|---------------------------------------|--|
| Release year | 2007 |
| Name of Institute / University | Sorghum Improvement Project, MPKV, Rahuri |
| Soil type | Deep Soil |
| Climate | Rabi Season |
| Sowing Time / Planting period | 15 th September to 15 th October |
| Seed Rate (Per acre) | 4 kg/ Acre |
| Crop duration | 118-122 days |
| Productivity | Grain Yield : 24-28 q/ha. Fodder Yield: 65-70 q/ha. |
| Characters / features | Round bold grain, Tolerant to shoot fly, Tolerant to Charcoal rot, Tolerant to drought |

Phule Anuradha (RSV458/SPV1709)



| | |
|---------------------------------------|---|
| Release year | 2008 |
| Name of Institute / University | Sorghum Improvement Project, MPKV, Rahuri |
| Soil type | Shallow soil |
| Climate | Rabi Season |
| Sowing Time / Planting period | 15 th September to 15 th October |
| Seed Rate (Per acre) | 4 kg/ Acre |
| Crop duration | 105-110 days |
| Productivity | Grain Yield : 8-10 q/ha. Fodder Yield: 30-35 q/ha. |
| Characters / features | Early. Bolder grain&Pearly white, Tolerant to shoot fly, Tolerant to Charcoal rot, Tolerant drought |



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Phule Revati (RSV1006/SPV1830)



| | | |
|------------------------------|---|--|
| | Release year | 2010 |
| | Name of Institute / University | Sorghum Improvement Project, MPKV, Rahuri |
| | Soil type | Medium to Deep Soil |
| | Climate | Rabi Season |
| | Sowing Time / Planting period | 15 th September to 15 th October |
| Seed Rate (Per acre) | 4 kg/ Acre | |
| Crop duration | 118-120 days | |
| Productivity | Grain Yield : 40-45 q/ha. Fodder Yield: 90-100 q/ha. | |
| Characters / features | Round bold grain and pearly white, Tolerant to shoot fly, Tolerant to foliar diseases, Tolerant to stem borer | |

Phule Panchami (RPOSV 3) - *Popping purpose*



| | | |
|------------------------------|---|--|
| | Release year | 2010 |
| | Name of Institute / University | Sorghum Improvement Project, MPKV, Rahuri |
| | Soil type | Medium – Deep soil |
| | Climate | Rabi Season |
| | Sowing Time / Planting period | 15 th September to 15 th October |
| Seed Rate (Per acre) | 4 kg/ Acre | |
| Crop duration | 118-120 day | |
| Productivity | Grain Yield : 12-14 qt./ha. Fodder Yield: 40-45 qt./ha. | |
| Characters / features | Popping purpose, Tolerant to shoot fly, Tolerant to Charcoal rot, Tolerant to drought | |



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Phule Suchitra (RSV1098/SPV2048)



| | |
|---------------------------------------|--|
| Release year | 2012 |
| Name of Institute / University | Sorghum Improvement Project, MPKV, Rahuri |
| Soil type | Medium Soil |
| Climate | Rabi Season |
| Sowing Time / Planting period | 15 th September to 15 th October |
| Seed Rate (Per acre) | 4 kg/ Acre |
| Crop duration | 120-125 days |
| Productivity | Grain Yield : 24-28 q/ha. Fodder Yield: 65-70 q/ha. |
| Characters / features | Round bold grain, Tolerant to shoot fly, Tolerant to Charcoal rot, Tolerant to drought |

Phule Godhan (CSV-30 F / RSSV-167 / SPV-2057)



| | |
|---------------------------------------|---|
| Release year | 2013 |
| Name of Institute / University | Sorghum Improvement Project, MPKV, Rahuri |
| Soil type | Medium Soil |
| Climate | Kharif Season |
| Sowing Time / Planting period | 15 th June to 7 th July |
| Seed Rate (Per acre) | 12 kg/ Acre |
| Crop duration | 76-80 days |
| Productivity | Fodder Yield: 50-60 q/ha. |
| Characters / features | |
| Remark | |




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Phule Madhur (RSSGV 46) – *Hurda Purpose*

| | | |
|---|--|--|
|  | Release year | 2015 |
| | Name of Institute / University | Sorghum Improvement Project, MPKV, Rahuri |
| | Soil type | Medium-Deep Soil |
| | Climate | Rabi Season |
| | Sowing Time / Planting period | 15 th September to 15 th October |
| Seed Rate (Per acre) | 4 kg/ Acre | |
| Crop duration | 115-118 days for maturity & 95-100 days for hurda | |
| Productivity | Hurda Yield : 30-35 q/ha. Fodder Yield: 65-70 q/ha. | |
| Characters / features | Sweet grain at dough stage & free thresh ability, Tolerant to shoot fly, Tolerant to Charcoal rot, Tolerant to drought | |

Phule Vasundhara (RSSH 50) Hybrid – *Ethanol Purpose*

| | | |
|---|---|---|
|  | Release year | 2015 |
| | Name of Institute / University | Sorghum Improvement Project, MPKV, Rahuri |
| | Soil type | Medium –Deep soil |
| | Climate | Kharif Season |
| | Sowing Time / Planting period | 15 th June to 7 th July |
| Seed Rate (Per acre) | 4 kg/ Acre | |
| Crop duration | 130-135 days | |
| Productivity | Green cane Yield : 50-55 t/ha. Grain Yield: .08-1.0 t/ha. Ethanol Yield : 1000 to 1200 Liter/ha | |
| Characters / features | Non tan pigment, Higher plant height, Moderately Tolerant to Shoot fly, Tolerant to foliar diseases | |



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Phule Rohini (RPASV 3)



| | |
|---------------------------------------|---|
| Release year | 2015 |
| Name of Institute / University | Sorghum Improvement Project, MPKV, Rahuri |
| Soil type | Medium – Deep soil |
| Climate | Rabi Season |
| Sowing Time / Planting period | 15 th September to 15 th October |
| Seed Rate (Per acre) | 4 kg/ Acre |
| Crop duration | 115-120 days |
| Productivity | Grain Yield : 18-20 q/ha. Fodder Yield: 45-50 q/ha. |
| Characters / features | Red grain, Tolerant to shoot fly, Tolerant to Charcoal rot, Tolerant to drought |